

CLAIMS

What is claimed is:

1. A self contained breathing apparatus (SCBA) harness comprising:
 - a mounting assembly, adapted to mount a SCBA air tank to the harness;
 - a waist strap, adapted to enclose a waist of a wearer of the harness, wherein the waist strap includes a frontal attachment point at a front of the harness;
 - two shoulder straps, adapted to enclose shoulders of the wearer; and
 - a stowable pelvis enclosing assembly, adapted to enclose a pelvis of the wearer, wherein the stowable pelvis enclosing assembly includes
 - at least one deployable strap,
 - an attachment mechanism adapted to connect the at least one deployable strap to the frontal attachment point, and
 - a pelvis assembly pouch, adapted to contain the at least one deployable strap and the attachment mechanism in a stowed state.
2. The harness of claim 1, wherein the at least one deployable strap comprises:
 - a crotch strap; and
 - two leg loops, wherein the two leg loops and the crotch strap form a Y shape, and wherein first ends of the leg loops are adapted to attach to the waist strap.
3. The harness of claim 1, further comprising:
 - a stowable rappel line assembly, which includes
 - a rappel line having a first end and a second end,
 - a harness attachment mechanism, attached to the first end, wherein the harness attachment mechanism is adapted to attach to a harness attachment point on the harness,

an anchor mechanism, attached to the second end, wherein the anchor mechanism is adapted to provide an anchor for the stowable rappel line assembly,
a descender, adapted to attach to the rappel line; and
a rappel line pouch, adapted to contain the rappel line, the descender, and the anchor mechanism.

4. The harness of claim 3, wherein the descender is pre-wrapped with the rappel line prior to stowing the descender and rappel line in the rappel line pouch.

5. A harness comprising:
a waist strap, adapted to enclose a waist of a wearer of the harness, wherein the waist strap includes a frontal attachment point at a front of the harness;
two shoulder straps, adapted to enclose shoulders of the wearer; and
a stowable pelvis enclosing assembly, adapted to enclose a pelvis of the wearer, wherein the stowable pelvis enclosing assembly includes
at least one deployable strap,
an attachment mechanism adapted to connect the at least one deployable strap to the frontal attachment point, and
a pelvis assembly pouch, adapted to contain the at least one deployable strap and the attachment mechanism in a stowed state.

6. The harness of claim 5, wherein the at least one deployable strap comprises:
a crotch strap; and
two leg loops, wherein the two leg loops and the crotch strap form a Y shape, and wherein first ends of the leg loops are adapted to attach to the waist strap.

7. The harness of claim 6, wherein a first leg loop and the crotch strap are formed from a first strap, and a second leg loop is formed from a second strap, which is connected to the first strap.

8. The harness of claim 5, further comprising:

an adjustment mechanism, adapted to adjust a length of the at least one deployable strap.

9. The harness of claim 5, wherein the at least one deployable strap and the pelvis assembly pouch are formed from fire resistive materials.

10. The harness of claim 5, further comprising:

a stowable rappel line assembly, adapted to attach to the waist strap, wherein the stowable rappel line assembly includes

a rappel line having a first end and a second end,

a harness attachment mechanism, attached to the first end, wherein the harness attachment mechanism is further adapted to attach to a harness attachment point on the harness,

an anchor mechanism, attached to the second end, wherein the anchor mechanism is adapted to provide an anchor for the stowable rappel line assembly,

a descender, adapted to attach to the rappel line; and

a rappel line pouch, adapted to contain the rappel line, the descender, and the anchor mechanism.

11. The harness of claim 10, wherein the descender is pre-wrapped with the rappel line prior to stowing the descender and rappel line in the rappel line pouch.

12. The harness of claim 10, wherein the rappel line and the rappel line pouch are formed from fire resistive materials.

13. A harness comprising:

a waist strap, adapted to enclose a waist of a wearer of the harness;

two shoulder straps, adapted to enclose shoulders of the wearer; and

a stowable rappel line assembly, adapted to attach to the waist strap, wherein the stowable rappel line assembly includes

a rappel line having a first end and a second end,
a harness attachment mechanism, attached to the first end, wherein the
harness attachment mechanism is further adapted to attach to a harness
attachment point on the harness,
an anchor mechanism, attached to the second end, wherein the anchor
mechanism is adapted to provide an anchor for the stowable rappelling
assembly,
a descender, adapted to attach to the rappel line; and
a rappel line pouch, adapted to contain the rappel line, the descender, and the
anchor mechanism.

14. The harness of claim 13, wherein the waist strap includes a frontal
attachment point at a front of the harness, the harness further comprising:
a stowable pelvis enclosing assembly, adapted to enclose a pelvis of the
wearer, wherein the stowable pelvis enclosing assembly includes
at least one deployable strap,
an attachment mechanism adapted to connect the at least one deployable
strap to the frontal attachment point, and
a pelvis assembly pouch, adapted to contain the at least one deployable strap
and the attachment mechanism in a stowed state.

15. The body harness of claim 14, wherein the at least one deployable strap
comprises:
a crotch strap; and
two leg loops, wherein the two leg loops and the crotch strap form a Y
shape, and wherein first ends of the leg loops are adapted to attach to the waist strap.

16. A kit comprising:
a stowable pelvis enclosing assembly, adapted to enclose a pelvis of a
wearer of a harness that includes a waist strap and two shoulder straps, wherein the
stowable pelvis enclosing assembly includes

at least one deployable strap,
an attachment mechanism adapted to connect the at least one
deployable strap to a frontal attachment point of the harness, and
a pelvis assembly pouch, adapted to contain the at least one
deployable strap and the attachment mechanism in a stowed state;
and
a stowable rappel line assembly, which includes
a rappel line having a first end and a second end,
a harness attachment mechanism, attached to the first end, wherein
the harness attachment mechanism is further adapted to attach to
a harness attachment point on the harness,
an anchor mechanism, attached to the second end, wherein the
anchor mechanism is adapted to provide an anchor for the
stowable rappelling assembly,
a descender, adapted to attach to the rappel line; and
a rappel line pouch, adapted to contain the rappel line, the descender,
and the anchor mechanism.

17. The kit of claim 16, wherein the at least one deployable strap comprises:
a crotch strap; and
two leg loops, wherein the two leg loops and the crotch strap form a Y
shape, and wherein first ends of the leg loops are adapted to attach to the waist strap.

18. The kit of claim 16, wherein the at least one deployable strap, the pelvis
assembly pouch, the rappel line, and the rappel line pouch are formed from fire
resistive materials.

19. A method for making a kit for a partial body harness, the method
comprising:

assembling a stowable pelvis enclosing assembly adapted to be connected to the partial body harness, wherein assembling the stowable pelvis enclosing assembly includes

assembling two leg loops and a crotch strap, wherein first ends of the two leg loops are adapted to attach to a waist strap of the partial body harness;

attaching an attachment mechanism to the crotch strap, wherein the attachment mechanism is adapted to attach to a frontal attachment point at a front of the partial body harness; and

assembling a pelvis assembly pouch, wherein the pelvis assembly pouch is adapted to contain the two leg loops, the crotch strap, and the attachment mechanism in a stowed state, and wherein the pelvis assembly pouch is further adapted to attach to the waist strap.

20. The method of claim 19, further comprising:

assembling a stowable rappel line assembly adapted to be connected to the partial body harness, wherein assembling the stowable rappel line assembly includes

attaching an anchor mechanism to a first end of a rappel line;

wrapping a descender with the rappel line;

attaching a harness attachment mechanism to a second end of the rappel line; and

assembling a rappel line pouch, wherein the rappel line pouch is adapted to contain the rappel line, the anchor mechanism, and the descender, and wherein the rappel line pouch is further adapted to attach to the waist strap.